

**U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY**

TRIBAL ENERGY PROGRAM



Peer Review

January 13-14, 2004

Thomas Sacco

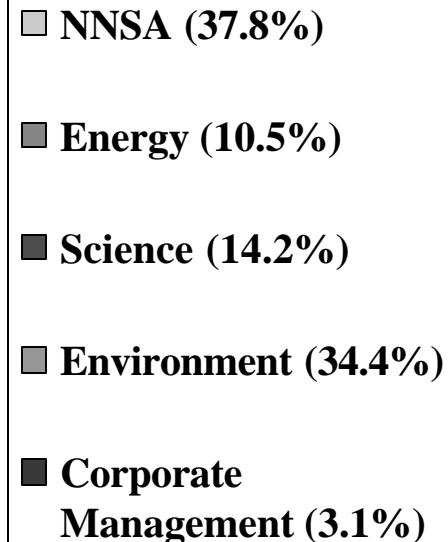
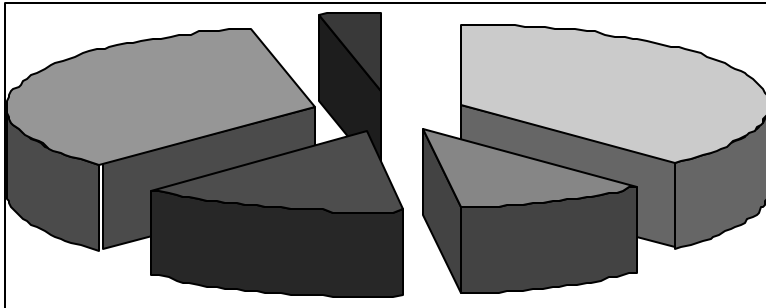
DOE, Golden Field Office



Department of Energy

**Advancing Energy and National Security through
Science, Technology and Environmental Stewardship**

DOE Budget of \$23.4 Billion



Energy (\$2.45 Billion) includes:

- Energy Efficiency and Renewable Energy (\$1.3)
- Fossil Energy (\$0.75)
- Nuclear Energy, Science and Technology (\$0.38)





DOE's Office of Energy Efficiency and Renewable Energy (EERE)

EERE's Mission

The EERE's mission is to strengthen America's energy security, environmental quality, and economic vitality in public-private partnerships that:

- Enhance energy efficiency and productivity;
- Bring clean, reliable and affordable energy technologies to the marketplace; and
- Make a difference in the everyday lives of Americans by enhancing their energy choices and their quality of life.

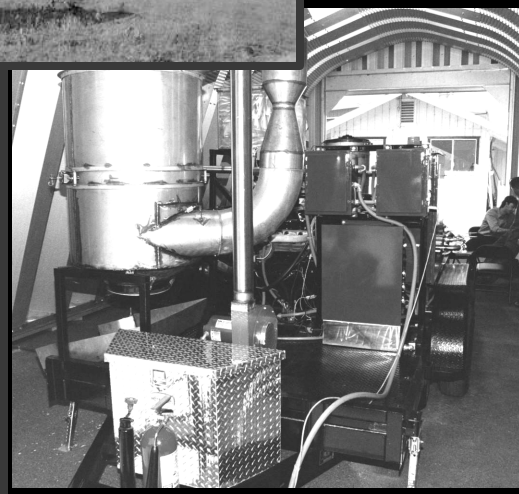




Renewable Energy Resources



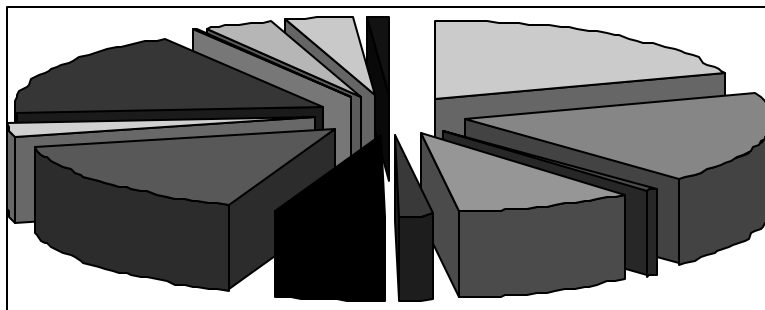
Renewable Energy Technologies



DOE's Office of Energy Efficiency and Renewable Energy

\$1.3 Billion Total EERE Budget Request (FY2004)

**Energy & Water Development
Request \$444.2 Million**

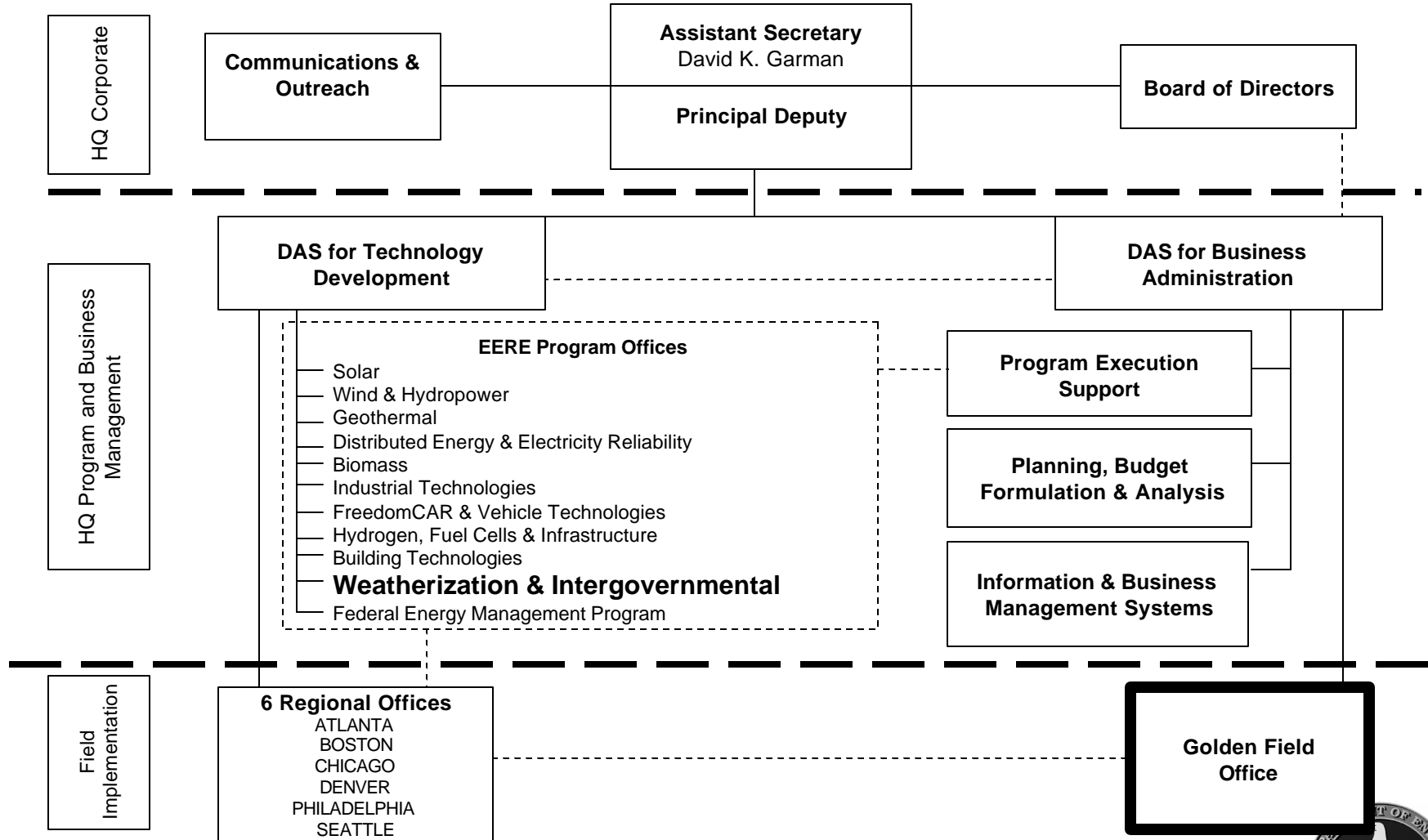


- ☐ Hydrogen
- ☐ Solar Energy
- ☐ Zero-Energy Buildings
- ☐ Wind Energy
- ☐ Hydropower
- ☐ Geothermal
- ☐ Biomass/Biorefinery Systems R&D
- ☐ Intergovernmental Activities
- ☐ Electric Reliability
- ☐ Energy Management
- ☐ NCCTI
- ☐ Program Direction
- ☐ Facilities & Infrastructure

**Tribal Energy Requested
FY2004 Budget: \$6 Million**



Office of Energy Efficiency and Renewable Energy

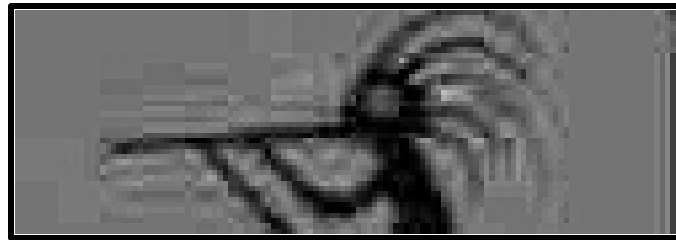




DOE's Tribal Energy Program

Tribal Energy Program

Promote tribal energy self-sufficiency and economic development and foster employment on tribal lands through the use of renewable energy



Authority

Section 2606 of Title XXVI Energy Policy Act of 1992 (P.L. 102-486)





DOE's Tribal Energy Program

Tribal Energy Program

“Indian land comprises 5% of the land area of the United States, but contains an estimated 10% of all energy resources in the United States”

“Wind resources in the Great Plains could meet 75% of the electricity demand in the contiguous 48 states.” (Native American Energy Development and Self-Determination Act of 2003)





DOE's Tribal Energy Program **Tribal Energy Program**

The most-burdened 10 percent of Indian households on reservations spend 20 percent or more of their income on electricity. Over twice the percentage of U.S. households at the same income level. (2000 EIA Report)



Hopi Solar Installation

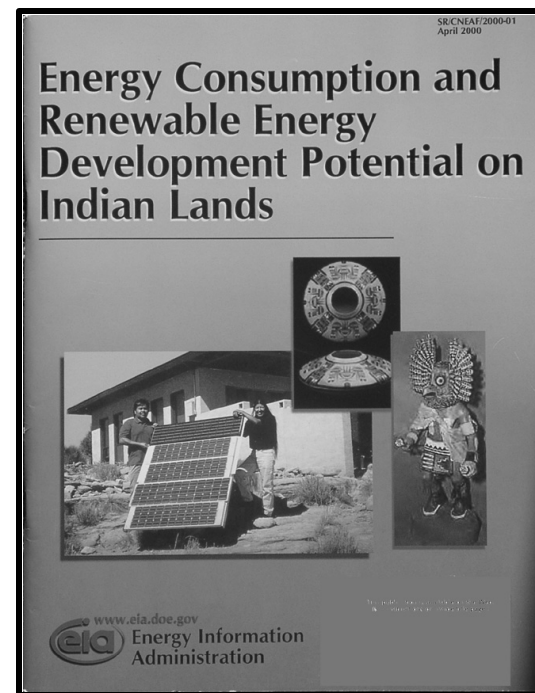




DOE's Tribal Energy Program

Tribal Energy Program

“Indian households on reservations are disproportionately without electricity. A total of 14.2% of Indian households have no access to electricity, as compared to only 1.4% of all U.S. households.” Navajo accounts for 75% of the households without electricity (2000 EIA Report)



DOE funded the Navajo Nation Electrification Demonstration Program (P.L. 106-511) resulting in 503 households electrified in fiscal year 2002

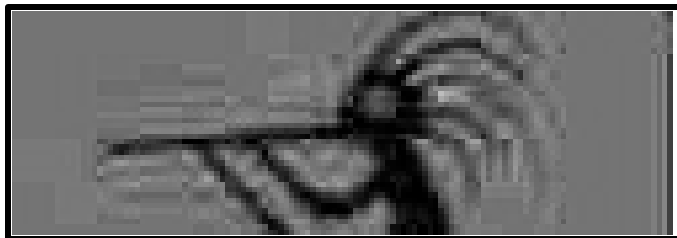




DOE's Tribal Energy Program

Tribal Energy Program

Providing financial and technical assistance to Tribes for feasibility studies and sharing the cost of implementing sustainable renewable energy projects on Tribal Lands



Tribes include Federally-recognized Tribes; Alaska Native villages; and Alaskan Native Corporations.

Tribal Lands include Indian reservations; Public domain Indian allotments; Former Indian reservations in Oklahoma; Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and Lands held in fee simple or under a Federal land lease.





DOE's Tribal Energy Program

Tribal Energy Program

Assist Tribes Meet Their Energy Goals

- **Developing in Cooperation with Tribes**
- **Providing Funding Opportunities**
- **Supporting Government-to-Government Relations**
- **Offering Technical Assistance**
- **Providing Information and Education**
- **Facilitating Government Collaboration and Leveraging Resources**

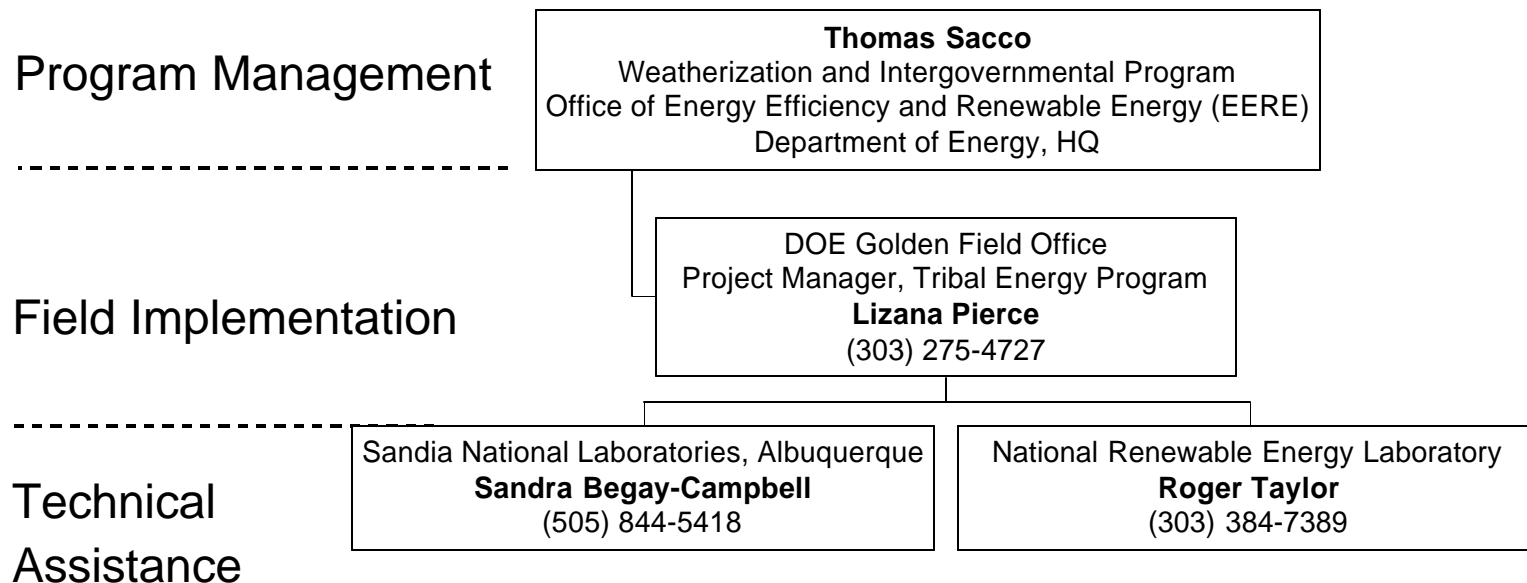




DOE's Tribal Energy Program

Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories.



Tribal Energy Program History

**BETWEEN FY1994 AND FY2001, DOE FUNDED 51 PROJECTS
TOTALING OVER \$9.5 MILLION**

Title XXVI Projects (Funded FY1994)

-35 Projects in 13 States (\$6.5 million)

Remote Applications Projects (Funded FY99)

-8 Projects in 5 States (\$1.9 million)

Tribal Colleges and Universities (Funded FY00-01)

-7 Feasibility Studies in 6 States (\$700,000)

-1 Project in New Mexico (\$431,000)



**Solar Installation on
Navajo Nation**



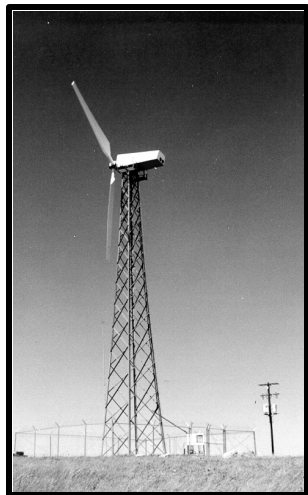
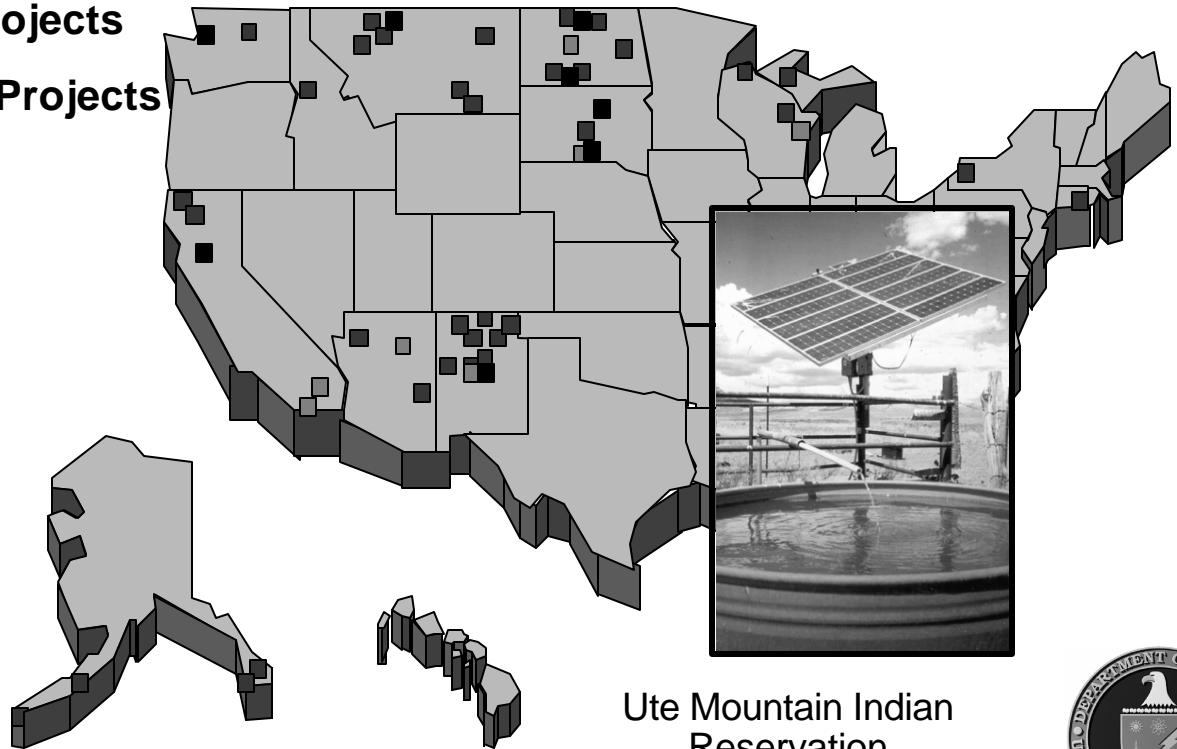
Tribal Energy Program History

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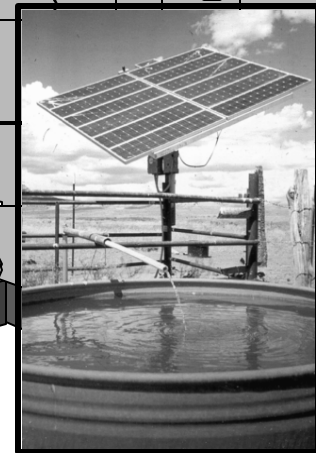
FY1994-95 Title XXVI Projects

FY1999 Remote Power Projects

FY2000-01 Colleges & Universities Projects



Blackfoot Tribe
Small-Scale
Utility Grade
Wind Turbine
Project



Ute Mountain Indian
Reservation
PV Water Pumping





DOE's Tribal Energy Program Funding Opportunities

First Steps Toward Developing Renewable Energy and Energy Efficiency

- Strategic planning
- Energy options analysis
- Capacity building
- Organizational development



**Chairman Tex Hall, Three Affiliated Tribes
Ground Breaking for Wind Turbine on the Fort
Berthold Reservation**

Renewable Energy Development on Tribal Lands

- Feasibility studies
- Development projects (cost shared)





Tribal Energy Program

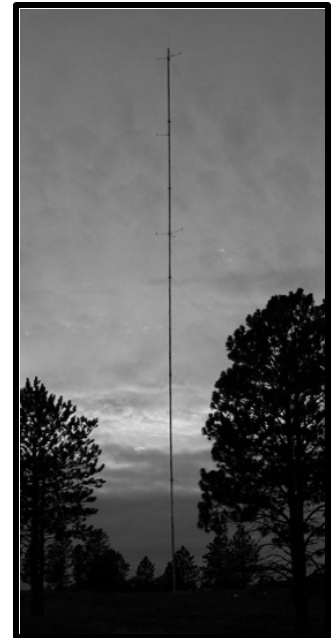
**IN FY2002 AND FY2003, DOE FUNDED 38 PROJECTS TOTALING
\$7.5 MILLION**

Renewable Energy Projects (Funded FY2002)

- 12 Feasibility Studies in 12 States (\$900,000)
- 2 Development Projects in 2 States (\$2,200,000)

Renewable Energy Projects (Funded FY2003)

- 8 Feasibility Studies (FY2002) in 8 States (\$1,500,000)
- 3 Development Projects in 2 States (\$1,200,000)
- 4 Feasibility Studies in 4 States (\$900,000)
- 9 “First Steps” Projects in 6 States (\$800,000)



**Northern Cheyenne
Nation**

**Wind Resource
Assessment**



Tribal Energy Projects

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION
FUNDED FROM FY2002 SOLICITATION**

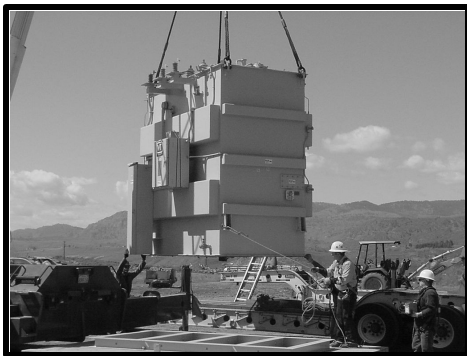
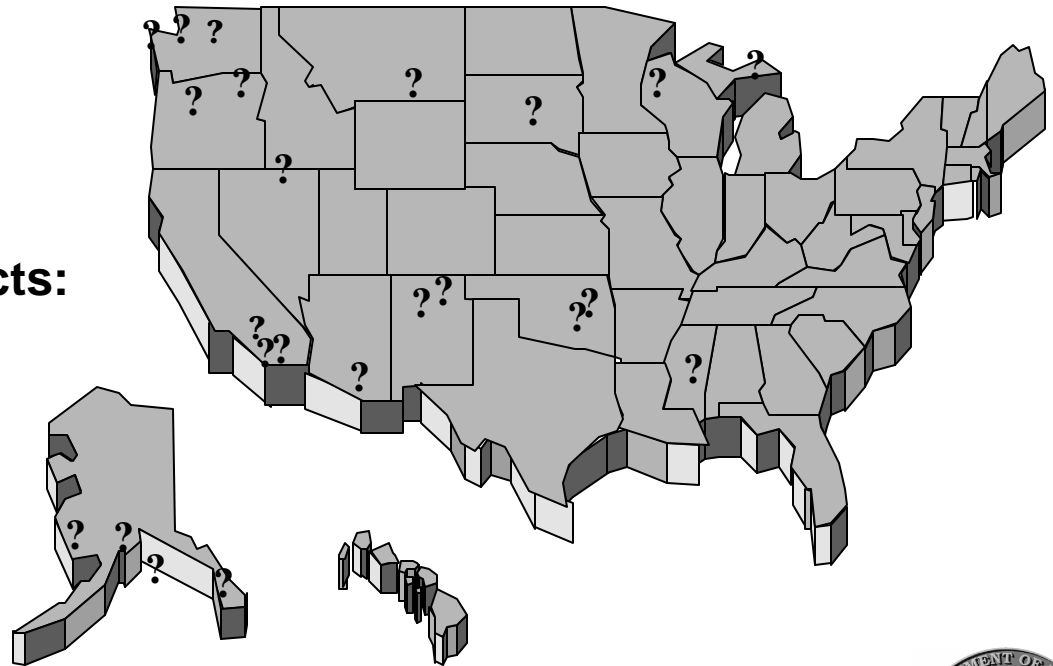
FY2002 Funded Projects:

? = 12 Feasibility Studies

? = 2 Developmental Projects

FY2003 Funded FY2002 Projects:

? = 8 Feasibility Studies



**Colville Indian Power and
Veneer Energy Substation**





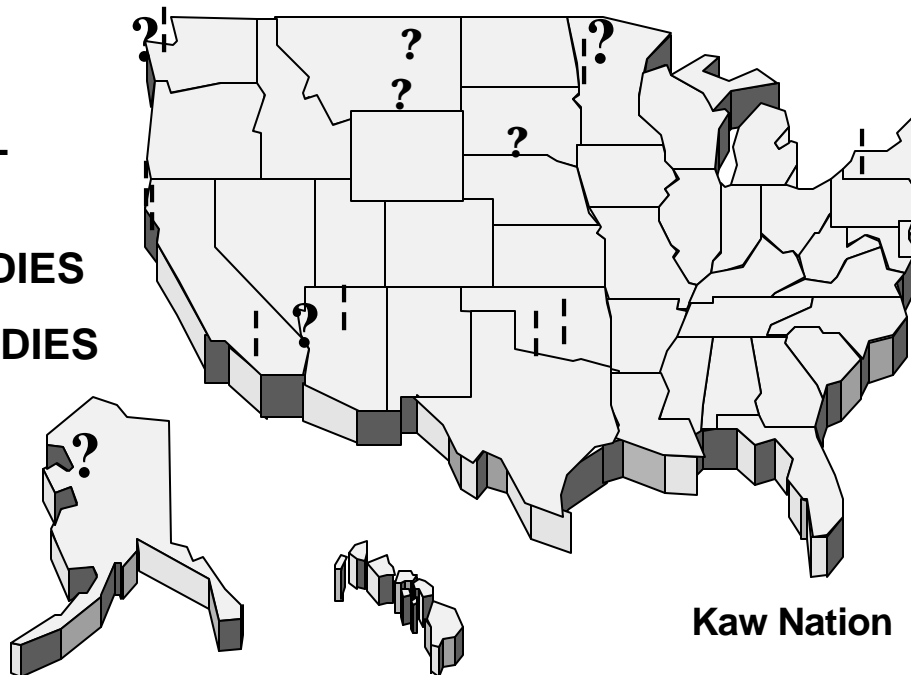
DOE NEWS

U.S. DEPARTMENT OF ENERGY • OFFICE OF PUBLIC AFFAIRS • WASHINGTON, DC 20585

DOE Awarded \$2.9 Million to 16 Tribal Clean Energy Projects in FY2003

FY2003 PROJECTS:

- ? 3 DEVELOPMENTAL PROJECTS
- ? 4 FEASIBILITY STUDIES
- ! 9 FIRST STEPS STUDIES

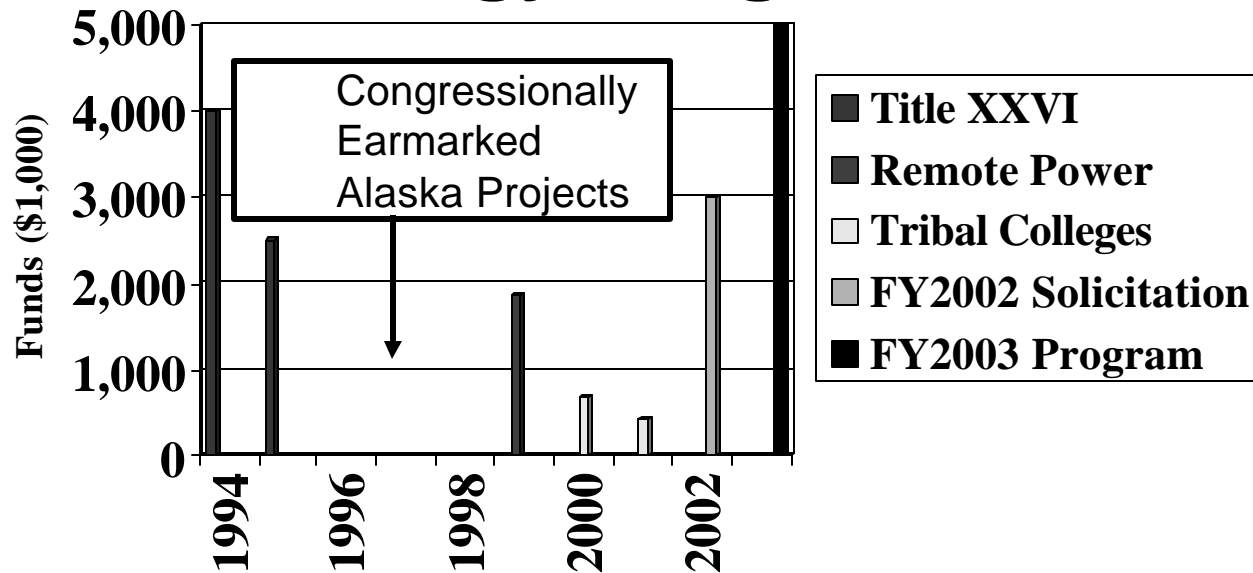


Kaw Nation

Wind Resource Assessment



Tribal Energy Program Funding



	1994	1995	1999	2000	2001	2002	2003
Title XXVI	4,000	2,500					
Remote Power			1,900				
Tribal Colleges				700	430		
FY 2002 Solicitation						3,000	
FY2003 Program*							5,000
* Congress appropriated \$6,000 with \$1,000 being non-discretionary							





DOE's Tribal Energy Program Funding

	FY2002	FY2003	FY2004
Requested	\$2,100	\$8,307	\$6,000
Enacted	\$3,000	\$6,000*	\$5,000**
Discretionary	\$3,000	\$5,000	\$1,700

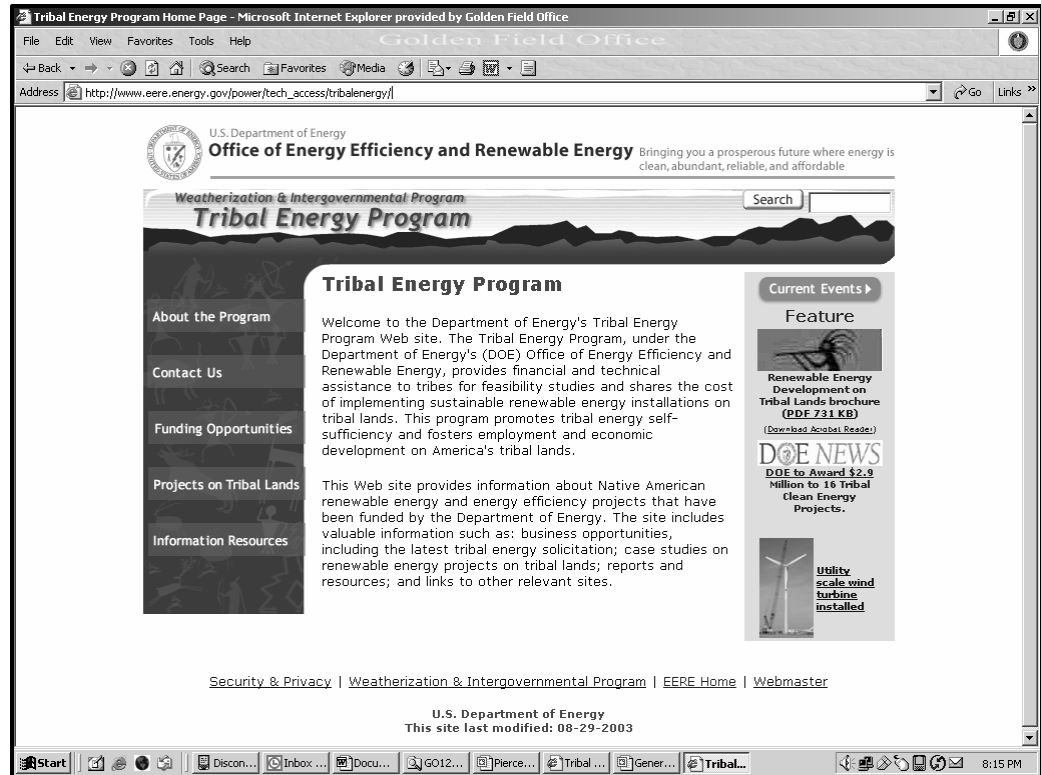
* Total of \$1,000,000 earmarked to the Council of Energy Resource Tribes (CERT)

** Total of \$3,300,000 earmarked to CERT, ICOUP, and Pyramid Lake Paiute



Tribal Energy Web Site

- Features
- Current Events
- Funding Opportunities
- Projects on Tribal Lands
 - Project Overviews
 - Status and Reports
 - Contacts
- Information Resource
- Contacts



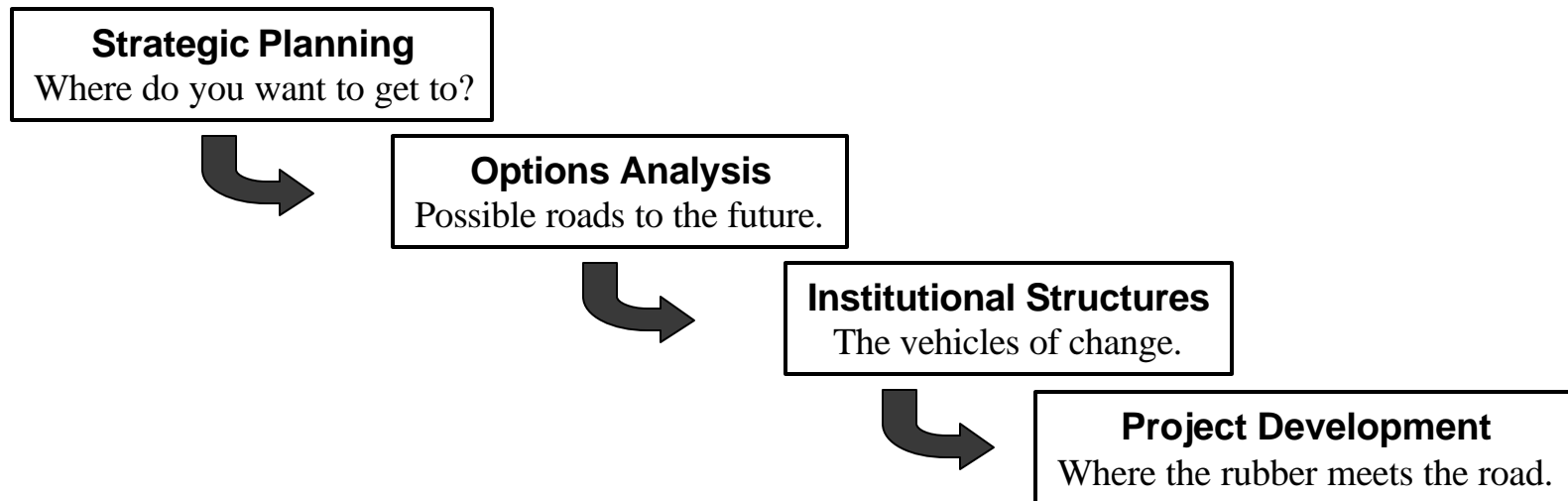
Tribal Energy Program www.eere.energy.gov/tribalenergy





Web-Based Guide to Tribal Energy Development

- Framework for the planning and implementation of energy development strategies
- Tool for addressing energy needs and an aid in achieving energy vision



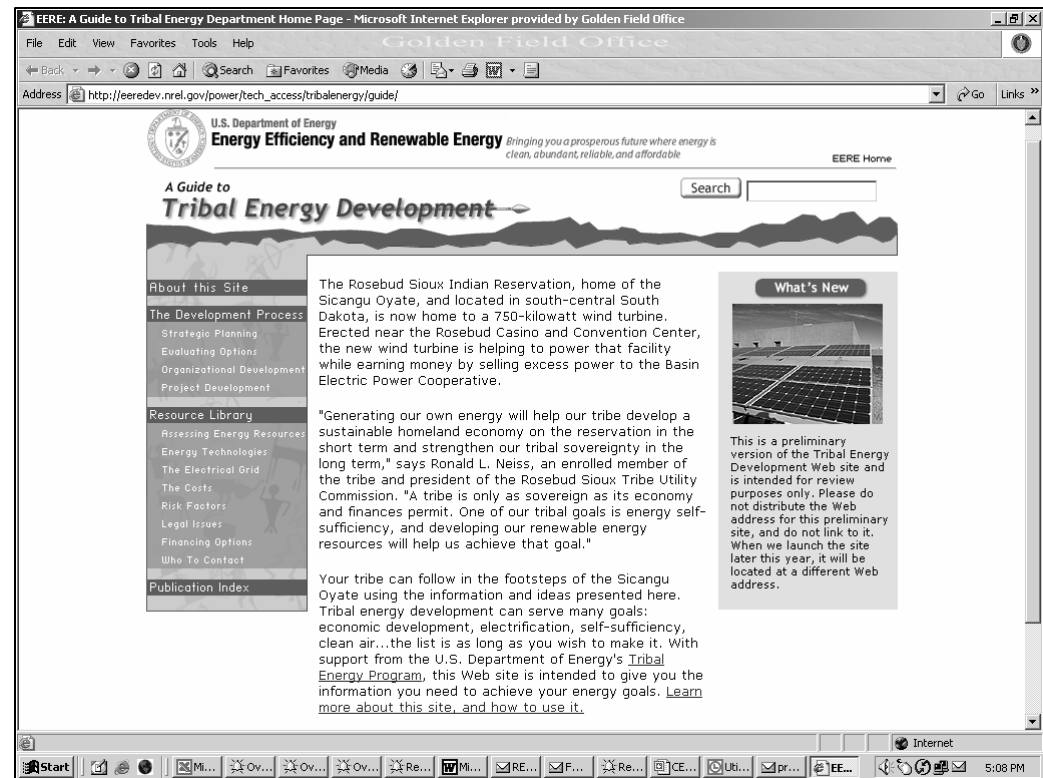
Guide to Tribal Energy Development

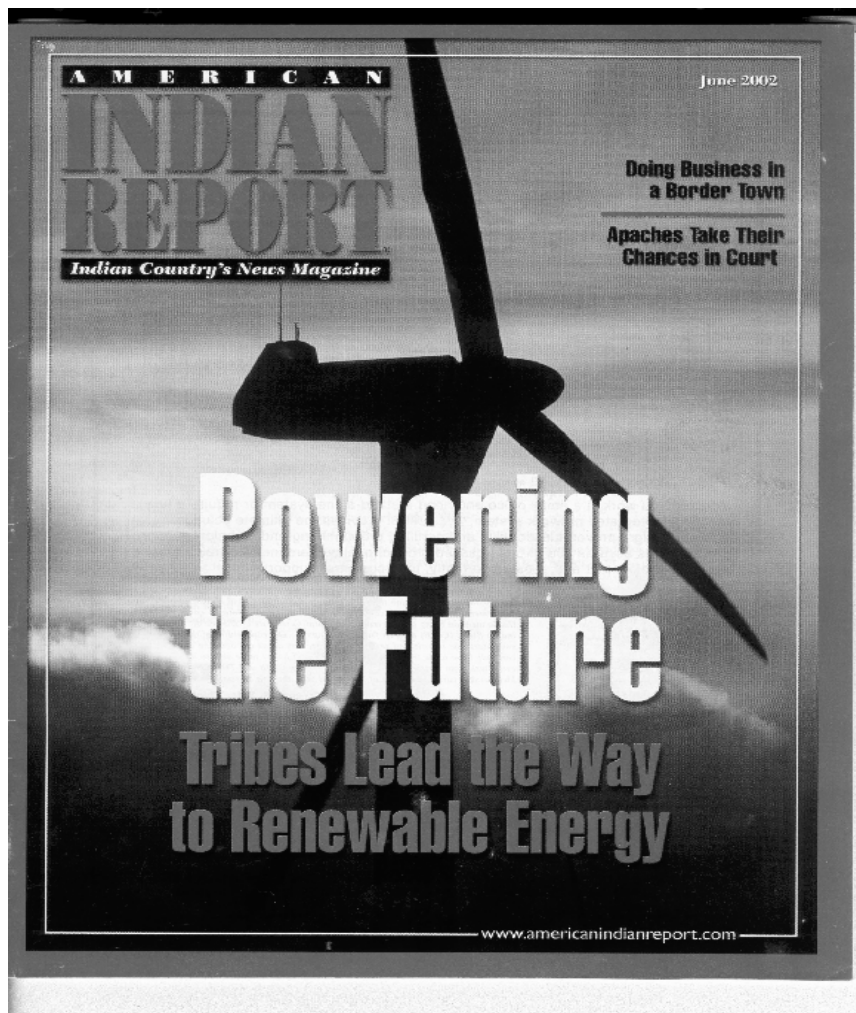
Development Processes

- Strategic Planning
- Options Analysis
- Organizational Development
- Project Development

Resource Library

- Energy Resources
- Technologies
- Costs
- Risk Factors
- Legal Issues
- Financing Options
- Contacts





“Tribes Leading the Way to Renewable Energy”

**American Indian Report
June 2002**

